Pencil and paper procedures (addi		
As outcomes, Year 5 pupils should, for example:	As outcomes, Year 6 pupils should, for example:	
Informal written methods Use pencil and paper methods to support, record or explain calculations, achieving consistent accuracy. Discuss, explain and compare methods.	Informal written methods Use pencil and paper methods to support, record or explain calculations, achieving consistent accuracy. Discuss, explain and compare methods.	
Where calculations are set out in columns, know that units should line up under units, and so on	Where calculations are set out in columns, know that units should line up under units, and so on	
HTU + HTU, then ThHTU + ThHTU For example:	ThHTU + ThHTU, then numbers with any number of digits For example:	
A: adding the most significant digits first 587 $7587$ + $475$ $+ 675$ $900$ $7000$ ] $150$ $1100$ ] add mentally $12$ $150$ ] from top $1062$ $12$ $8262$	A: adding the most significant digits first         7648       6584         + $\underline{1486}$ + $\underline{5848}$ 8000       11000 ]         1000       1300 ] add mentally         120       120 ] from top $\underline{14}$ $\underline{12}$ ]         9134       12432	
B: compensation (add too much, take off) 654 + $286$ 954 ( $654$ + $300$ ) -14 ( $286$ - $300$ ) 940	B: compensation (add too much, take off) 6467 + $2684$ 9467 ( $6467$ + $3000$ ) -316 ( $2684$ - $3000$ ) 9151	
<b>Standard written methods</b> Continue to develop an efficient standard method that can be applied generally. For example:	Standard written methods Continue to develop an efficient standard method that can be applied generally. For example:	
C: using `carrying'	C: using `carrying'	
587 3587	7648 6584	

	587		3587
+	475	+	675
	1062		4262
	11		111

Extend method to numbers with at least four digits.

Using similar methods, add several numbers with different numbers of digits. For example, find the total of:

58, 671, 9, 468, 2187.

## **Extend to decimals**

Using the chosen method, add two or more decimal fractions with up to three digits and the same number of decimal places. Know that decimal points should line up under each other, particularly when adding or subtracting mixed amounts such as  $3.2 \text{ m} \pm 350 \text{ cm}$ . For example:

£6.72 + £8.56 + £2.30 72.5 km + 54.6 km

## 42, 6432, 786, 3, 4681.

For example, find the total of:

## Extend to decimals

1486

 $\frac{9134}{111}$ 

number of digits.

+

Using the chosen method, add two or more decimal fractions with up to four digits and either one or two decimal places. Know that decimal points should line up under each other, particularly when adding or subtracting mixed amounts such as  $14.5 \text{ kg} \pm 750 \text{ g}$ . For example:

5848

12432

111

Extend method to numbers with any

Using similar methods, add several

numbers with different numbers of digits.

124.9 + 7.25 401.2 + 26.85 + 0.71 42

6432

786

11944

3 4681